



Dr. KAVITA DHANAWADE

Dr. Kavita Dhanawade is a Professor of Mechanical Engineering & Associate HOD at Lokmanya Tilak College of Engineering (LTCOE). She's also Faculty Advisor at ASHRAE LTCOE Student Branch. She's been teaching HVAC & R, Thermodynamics, Heat transfer to the students from past 25 years. She's also serving as the BOG member to ASHRAE MUMBAI Chapter.

CONTACT

PHONE: +91 9224410022

EMAIL: KavitaDhanawade2@gmail.com

FUNDING

ASHRAE Grant \$3150

PARTNERSHIPS

Mechanical Engineering Department

DURATION

12 months to design, build, and tes

DESIGN AND DEVELOPMENT OF INDIRECT EVAPORATIVE COOLING SYSTEM AS A EXPERIMENTAL TEST RIG

LOKMANYA TILAK COLLEGE OF ENGINEERING, NAVI MUMBAI, UNIVERSITY OF MUMBAI

OUR STORY

The exposure we got in designing and fabricating the IEC is immense. Designing the machine was like a roller-coaster ride. After multiple trial and errors, we could finally conclude on the following design. We got deep understanding about the evaporative coolers. We were very excited while fabricating our own design. Actually, it was like a dream come true to fabricate our design. The whole credit goes to ASHRAE. Thank You ASHRAE!

OUR PROJECT

The new concept of our project addresses problem with geometry, water distribution, working air injection, and inadequate heat transfer. The IEC framework was planned to be modular in order to facilitate commercialization. The experimental test rig would allow students to understand the set-up and working of eco-friendly and efficient evaporative cooler without any moisture content.

